

Model 7615

Dolby E Audio Sub Module for 7900 series with AES I/O

Audio Processing

The 7615 is an eight-channel sub module for use with the Avenue 7900 Series Up/Down/Cross Converters. It offers all the functionality of the 8415 sub module plus the ability to decode Dolby-E signals. The 7615 has four channels of AES I/O. Embedded AES and Dolby-E signals are disembedded, decoded if applicable, and presented on four BNCs. Alternately, AES and Dolby-E can be re-embedded into the video stream. All audio processing is performed at full 24 bit resolution by a digital signal processor (DSP).

Lip Sync Preservation

The 7615 has been designed to provide superior handling of embedded audio. The disembedder on the input side follows the timing of the video input, even if that input is asynchronous to the house reference. The embedder on the output side is synchronous to house. This allows embedded audio to be safely bypassed around the video framestore with lip sync properly preserved.

Mix, Swap, and Shuffle

The 7615 provides a full-featured, eight-channel audio mixer for AES audio. It provides precise control over audio level, with up to 12 dB of gain to compensate for low level sources. The channel swap and shuffle capability allows you to completely rearrange and remix audio channels. Because the 7615 has simultaneous disembedding and embedding, it is an in-line processor for embedded audio. It can take embedded content, adjust levels and remap channels, and deliver it to the output as an embedded signal. In addition to the tracking delay functionality, audio delay can be manually adjusted through the Avenue control system.

Model 7620

Dolby-E Audio Sub Module Option for 7600

Audio Processing

The 7620 is an eight-channel sub module for use with the Avenue 7600 HD/SD Embedder/Disembedder. The 7620 is the Dolby-E decoding option for the 7600. All audio processing is performed at full 24 bit resolution by a digital signal processor (DSP).

The 7600 module accepts an SD or HD video signal. When configured as a demultiplexer, the 7600 decodes two groups of audio and presents the signals on four BNCs. If Dolby-E is present, the 7620 will disembed and decode that signal and present the individual audio channels in AES form.

When the 7600 is configured as an in-line shuffler, AES and Dolby-E signals can be disembedded, adjusted and then reembedded into the video stream.